

The present listing of claims replaces all prior versions and listings of claims in the subject patent application.

Listing of Claims:

Claim 1(previously submitted): An electrochemical actuator comprising a high-conductivity conjugated polymer element other than a polypyrrole element having an electrical conductivity of ≥ 150 S/cm, wherein said element actuates by linear extension/contraction.

Claim 2 (canceled)

Claim 3 (previously submitted): The electrochemical actuator as described in claim 1, wherein the high-conductivity conjugated polymer is prepared from a monomer selected from the group consisting of aniline, thiophene, phenylene vinylene, and derivatives thereof.

Claim 4 (original): The electrochemical actuator as described in claim 3, wherein the derivatives comprise derivatives that generate high-conductivity conjugated polymers when polymerized.

Claim 5 (original): The electrochemical actuator as described in claim 4, wherein the derivatives are selected from the group consisting of C1-C10 alkyl-, C1-C10 alkoxy-, halo-, nitro-, cyano-, and ester-substituted monomers.

Claim 6-15 (canceled)